

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/007099 A2

(51) International Patent Classification⁷:

A61K

(74) Agents: **SOMERVILLE, Deborah, A. et al.**; Kenyon & Kenyon, One Broadway, New York, NY 10004 (US).

(21) International Application Number:

PCT/US2004/021834

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 9 July 2004 (09.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/486,339

10 July 2003 (10.07.2003) US

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **IM-CLONE SYSTEMS INCORPORATED** [US/US]; 180 Varick Street, New York, NY 10014 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **KAWAKAMI, Joel** [US/US]; 91 Morris Avenue, West Milford, NJ 07480 (US). **DUNCTON, Matthew** [GB/US]; 222 Montgomery Street, Jersey City, NJ 07302 (US). **SHERMAN, Dan** [US/US]; 35-25 78th Street, Jackson Heights, NY 11372 (US). **HE, Hai-Ying** [CN/US]; 3552 12th Avenue, Brooklyn, NY 11218 (US). **KISELYOV, Alexander** [UA/US]; 4203 Shorepointe Way, San Diego, CA 92130 (US). **PYTOWSKI, Bronek** [US/US]; 528 West 111th Street, New York, NY 10025 (US).

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PKB INHIBITORS AS ANTI-TUMOR AGENTS**

(57) Abstract: The invention is directed to biaryl compounds with two six membered rings fused wherein at least one six membered ring is substituted with a thiophenyl or furanyl ring. Useful in the inhibition of PKB kinase, the treatment of cancer, or the inhibition of tumor growth.



WO 2005/007099 A2